

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

KIM, Inhan

Daerim Bldg. 5th Floor, 1695-4, Seocho-dong, Seocho-ku
Seoul 137-883, Republic of Korea

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **17 FEBRUARY 2005 (17.02.2005)**

Applicant's or agent's file reference

PCT204-0049

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2004/002664

International filing date (day/month/year)

18 OCTOBER 2004 (18.10.2004)

Priority date(day/month/year)

18 OCTOBER 2003 (18.10.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC7 C12Q 1/68

Applicant

NANOSTORAGE CO., LTD. et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

BAIK, Kyong UP

Telephone No. 82-42-481-5596



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/002664

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/002664

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-15	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-15	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims	NONE	NO

2. Citations and explanations :

Claims 1-15 of the present invention relate to a diagnosis system having a biochip reading system for rotatively analyzing biochips and a reading apparatus, comprising a rotatable disk-shaped biochip supplying means; a disk-rotation driving part capable of rotating said biochip supplying means; a light source emitting a beam toward said disk; a light receiving part receiving the beam reflected from said disk; a focusing/tracking management part by means of the beam received by said light receiving part; a light pickup part having an objective lens driving part capable of following the focus and track of said light source; a light pickup apparatus having a bio-analyzing signal generator by receiving the light excited from said biochip; and an output system and output control part in which a signal management part receives the resulting bio-analyzing information and the information is analyzed to be a bio-analyzing information for monitoring and printed.

1. Novelty

Claims 1-15 of the present invention relating to a diagnosis system having a biochip reading system for rotatively analyzing biochips and a reading apparatus, are novel under PCT Article 33(2).

2. Inventive Step

Claims 1-15 of the present invention relating to a diagnosis system having a biochip reading system for rotatively analyzing biochips and a reading apparatus, are not considered to be readily invented by a person skilled in the art from the teaching of the prior art. Thus claims 1-15 are inventive under PCT Article 33(3).

3. Industrial Applicability

Claims 1-15 of the present invention are industrially applicable under PCT Article 33(4).